

Lab 5 - Code Design II

Sunday, April 5, 2020 1:42 PM

Continuous Loop

- Read UART Rx status
- If character available
 - Read character
 - Increment count and display
 - If capital letter
 - Convert to lower case
 - Echo character

End of Loop

Read UART Rx status

```
// Wait for a character to be received
// when buffer is empty, return value is 0
if( DataRdyUART2() == 1){
```

If character available

```
Read character
c = ReadUART2();
```

Increment count and display

```
count++; // increment count
count_bits = (short int)count; // recast to short int
```

```
// write bits to output port
mPORTEWrite(count_bits);
```

If capital letter

Convert to lower case

```
// examine input character and modify as necessary
if((c>=65)&&(c<=90))
    c = c + 32; // Convert upper to lower case
```

Echo character

```
WriteUART2( c);
```